

hand-held optical fiber identifier

F6222 F6222C

Features

- Hand-Held, Lightweight, Rugged, Battery-Powered
- Interchangeable Adapter Heads for: 250 μm , 900 μm Coated, 3 mm Jacketed or Ribbon Fiber
- Complete With Carrying Case
- Attaches to Belt or Tool Pouch
- Relative Core Power Reading
- Operates With One Hand
- Weighs 7.5 oz.

Live Fiber Identifier

- Operates From 800 nm to 1700 nm
- Compatible With Most AT&T and Corning Optical Fiber
- Uses Non-Destructive Macro-bending Technology
- Core Power Sensitivity
 - F6222: -40 dBm
 - F6222C: -20 dBm

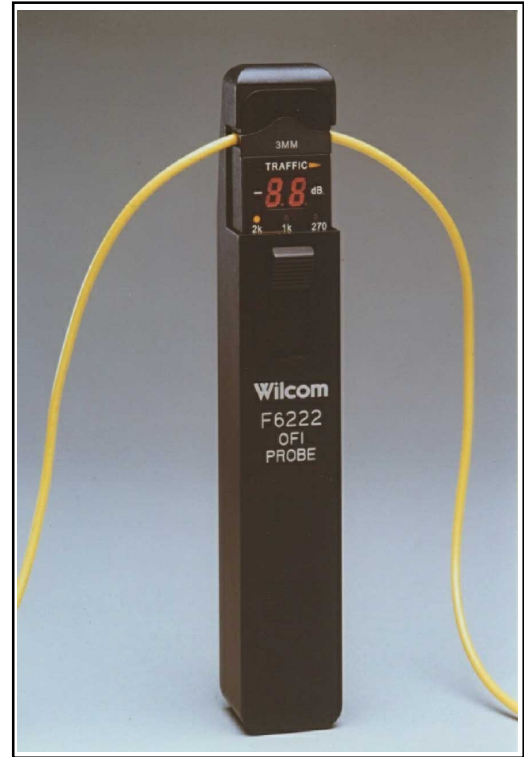
Easy to Use

- Core Power Measurement
- Bi-Directional Traffic Indication
- High Intensity LED indication of Active Signal Transmission
- Detects presence of 270 Hz, 1000 Hz and 2000 Hz Modulated Tones

Description

Wilcom's hand-held OFI Models F6222 and F6222C Probes are rugged, easy-to-use installation and maintenance instruments which identify optical fibers by detecting the optical signals being transmitted through a singlemode fiber. The F6222C Probe is designed specifically to meet the needs of the CATV industry. By utilizing local detection technology (non-destructive macro-bend detection), both units eliminate the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

Signals detected by both models include continuous wave, live optical transmission, and low frequency modulated



tones at 270, 1000, and 2000 Hz. When traffic is present on the fiber tested, the direction of transmission is indicated by LEDs illuminating on the probe. When modulated tones are present on the fiber under test, the units will detect and illuminate the corresponding LED for 270 Hz, 1000 Hz or 2000 Hz. The relative core power in the fiber is measured and displayed on a two-digit, seven-segment LED display. This allows for the measurement of power loss through a splice or connector. Both the F6222 and the F6222C have the widest environmental operating range of any optical fiber identifier on the market today.

Wilcom

The F6222 and the F6222C used in conjunction with Wilcom's stabilized Laser or LED Sources outlined below offer optimum fiber optic identification capability.

F6222/F6222C	FS8513A	FS8514A	FS1316
Wavelength	850 nm 1310 nm	850 nm 1310 nm	1310 nm 1550 nm
Presence of CW Signal	↗	↗	↗
Tone Detection	2 kHz	2 kHz 1 kHz 270 Hz	2 kHz 1 kHz 270 Hz

Specifications

Optical Characteristics: (Using Corning 1528)

Detection Technique Non-destructive macro-bending
 Typical loss in dB <0.6 dB @1310 nm typical
 Spectral Response 800 nm to 1700 nm
 Detector Sensitivity (MDSP)* -40/-45 dBm typical (equivalent core power)
 Optical Tone Receiver 270 Hz, 1 kHz, 2 kHz
 Minimum Fiber Slack 0.75 inches required for detection
 Core Power Reading
 F6222: 0 to -40dBm
 F6222C: +20 to -20 dBm

Fiber Compatibility:

Dual Window Singlemode 8 to 10 µm core diameter
 Coating Diameter 250 µm diameter
 Coating High Refractive Index Acrylate

Electrical Characteristics:

Power Operation One 9-volt Alkaline battery
 Approx. 10,000 readings

Environmental Conditions:

Operating Temperature -20°C to +50°C
 Storage Temperature -40°C to +60°C
 Humidity 0 to 90% non-condensing
 Physical
 Length: 7.5 inches
 Width: 1 1/4 inches
 Depth: 1 inch
 Weight: 7.5 oz.

Ordering Information:

<u>Model</u>	<u>Part No.</u>
<i>Basic:</i> F6222	30622210
F6222C	30622230

Includes Fiber Optic Probe, carrying case and three (3) interchangeable adapter heads for jacketed, coated or ribbon fiber.

Accessories:

2mm Adapter 04419965

CLEI Code: TELWX7DDAA



*Mean detectable signal power for singlemode fiber at 1310/1550 nm.

Specifications and prices are subject to change without notice.

8/01
811-812-008

Wilcom

P.O. Box 508
 Laconia, NH 03247
 Tel: 603/524-2622 or 800/222-1898, Fax: 603/524-3735
 www.wilcominc.com